

IN THE CLAIMS:

1. (Previously Presented) A mobile, uniprocessor computer system comprising:  
a high-level baseband controller to operate a radio module in accordance with a wireless communication protocol; and  
a primary host processor coupled to the high-level baseband controller, the processor having a first portion to process real-time events received from the controller and associated with the wireless communication protocol, and having a second portion to process non real-time events,  
wherein the first portion comprises a real-time event circuit to initiate execution of a real-time event handler.
2. (Original) The computer system of claim 1, wherein the first portion of the processor includes a non-symmetric processing core to run a first operating system, the second portion of the processor to run a second operating system, and the first and second portions of the processor to share a level-2 cache.
3. (Previously presented) The computer system of claim 1, wherein the real-time event circuit is to halt a non real-time process.
4. (Original) The computer system of claim 3, wherein the first portion of the processor further includes a timer to trigger the real-time event circuit to initiate the execution of the real-time event handler.
5. (Original) The computer system of claim 3, wherein the processor includes an externally

accessible event pin to trigger the real-time event circuit to initiate the execution of the real-time event handler.

6. (Currently Amended) The computer system of claim 1, wherein the non real-time events are associated with running a ~~Windows~~ specific operating system.

7. (Currently Amended) The computer system of claim 1, further comprising a radio module including buffered input-output ports coupled to the high-level baseband controller, a low-level baseband controller, and a transceiver to enable wireless communication in accordance with the wireless communication protocol, ~~the module meeting Limited Modular Approval by the Federal Communications Commission.~~

8. (Original) The computer system of claim 7, wherein the low-level baseband controller includes a baseband portion associated with a link management protocol.

9. (Original) The computer system of claim 7, further comprising a flexible cable coupled to the high-level baseband controller at a first end and coupled to the ports of the radio module at a second end.

10. (Original) The computer system of claim 9, further comprising a hinged lid into which the radio module is affixed, the flexible cable extending through a hinge between the radio module and the high-level baseband controller.

11. (Original) The computer system of claim 1, further comprising a chipset, the high-level

baseband controller being incorporated into the chipset.

12. (Original) The computer system of claim 1, further comprising a keyboard controller, the high-level baseband controller being incorporated into the keyboard controller.

13. (Original) The computer system of claim 1, wherein the wireless communication protocol is selected from a group consisting of Bluetooth, SWAP, and IEEE 802.11.

14. (Previously presented) A method comprising:

executing a process on a primary host processor of a computer system, the process being associated with a non real-time operating system;

receiving a real-time event by a transceiver of the computer system from an external device, the event associated with a wireless communication protocol;

forwarding the event to the processor; and

processing the event in real-time using a real-time event handler initiated by a real-time event circuit within the processor, the processing of the event allowing to maintain the wireless communication protocol and to perform a high-level portion of baseband processing associated with the wireless communication protocol by the processor independent of the operating system.

15. (Original) The method of claim 14, wherein a low-level portion of the baseband processing associated with the wireless communication protocol is done by a radio module independent of the processor.

16. (Original) The method of claim 15, wherein the wireless communication protocol is a

Bluetooth protocol, and the low-level portion of the baseband processing is in accordance with the Bluetooth link management protocol.

17. (Original) The method of claim 14, wherein processing the event in real-time includes halting the process, saving a processor state to a reserved memory space, executing a real-time event handler, returning the processor state, and continuing execution of the process.

18. (Original) The method of claim 14, wherein processing the event in real-time includes processing the event in a first portion of the processor under a first operating system while continuing execution of the process in a second portion of the processor under a second operating system.

19. (Previously presented) A mobile, uniprocessor computer system comprising:

- a memory; and
- a primary host processor coupled to the memory, the processor executing a set of instructions which cause the processor to
  - execute a process on the primary host processor of the computer system, the process being associated with a non real-time operating system;
  - receive a real-time event by a transceiver of the computer system from an external device, the event associated with a wireless communication protocol;
  - forward the event to the processor; and
  - process the event in real-time using a real-time event handler initiated by a real-time event circuit within the processor, the processing of the event allowing to maintain the wireless communication protocol and to perform a high-level portion of baseband processing associated

with the wireless communication protocol by the processor independent of the operating system.

20. (Previously presented) A machine-accessible medium including machine-accessible instructions that, when executed by a computer system, cause the computer system to perform a method comprising:

executing a process on a primary host processor of the computer system, the process being associated with a non real-time operating system;

receiving a real-time event by a transceiver of the computer system from an external device, the event associated with a wireless communication protocol;

forwarding the event to the processor; and

processing the event in real-time using a real-time event handler initiated by a real-time event circuit within the processor, the processing of the event allowing to maintain the wireless communication protocol and to perform a high-level portion of baseband processing associated with the wireless communication protocol by the processor independent of the operating system.

21. (Original) The medium of claim 20, wherein a low-level portion of the baseband processing associated with the wireless communication protocol is done by a radio module independent of the processor wherein the wireless communication protocol is a Bluetooth protocol, and the low level portion of the baseband processing is in accordance with the Bluetooth link management protocol.